

# Higher Nakayama Algebras

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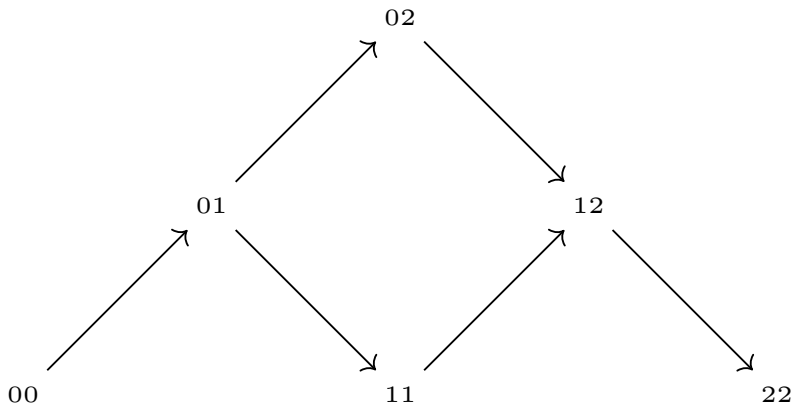
Preprojective Algebras Interacting with Singularities,  
Cohen-Macaulay Modules and Weighted projective Spaces  
Oaxaca, México. October 8, 2015

$$1\text{-}A_3 = 1\text{-}A(1, 2, 3)$$

$$0 \longrightarrow 1 \longrightarrow 2$$

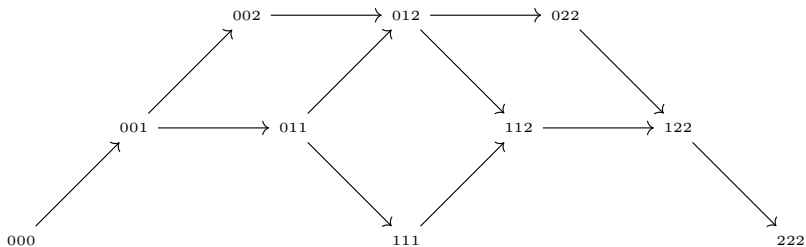
$$\tau_0(v) = v - 1$$

$$2\text{-}\mathbb{A}_3 = 2\text{-}\mathbb{A}(1, 2, 3)$$



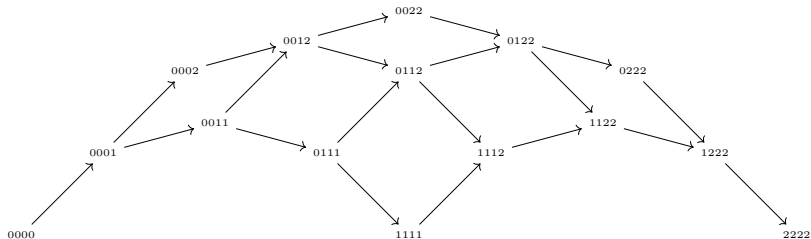
$$\tau_1(v) = v - (1, 1)$$

$$3\text{-}\mathbb{A}_3 = 3\text{-}\mathbb{A}(1, 2, 3)$$



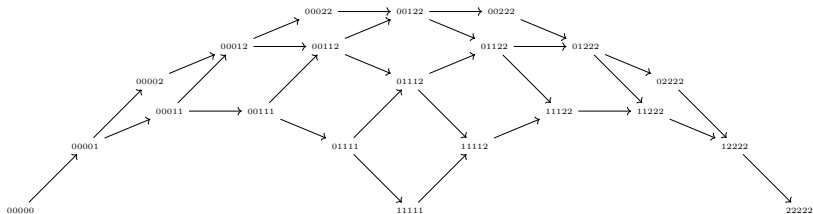
$$\tau_2(v) = v - (1, 1, 1)$$

$$4\text{-}\mathbb{A}_3 = 4\text{-}\mathbb{A}(1, 2, 3)$$

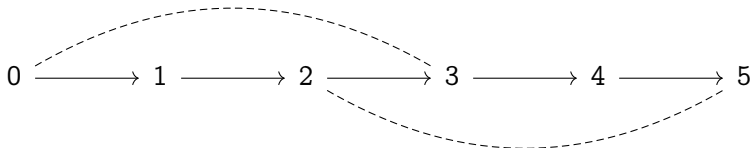


$$\tau_3(v) = v - (1, 1, 1, 1)$$

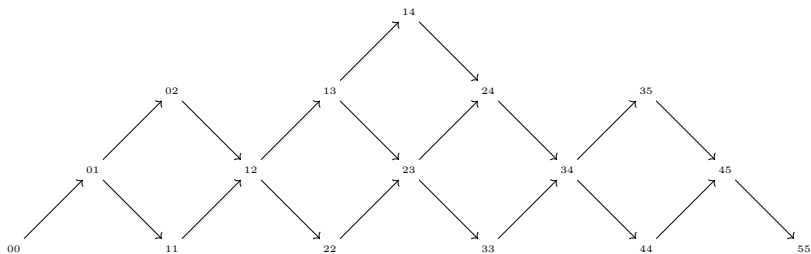
$$5\text{-}\mathbb{A}_3 = 5\text{-}\mathbb{A}(1, 2, 3)$$



$$\tau_4(v) = v - (1, 1, 1, 1, 1)$$

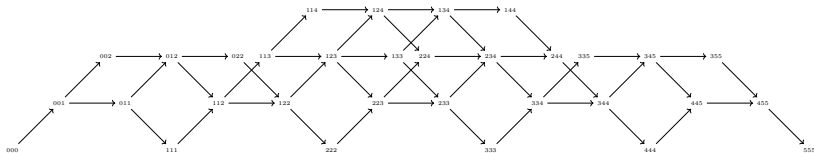
$1\text{-}\mathbb{A}(1, 2, 3, 3, 4, 3)$ 

$$\tau_0(v) = v - 1$$

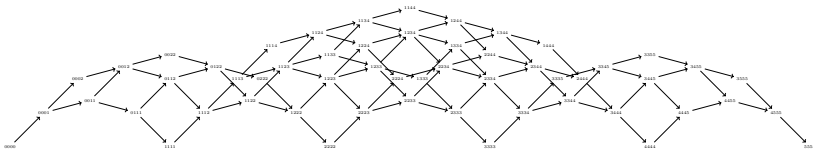
$2\text{-}\mathbb{A}(1, 2, 3, 3, 4, 3)$ 

$$\tau_1(v) = v - (1, 1)$$

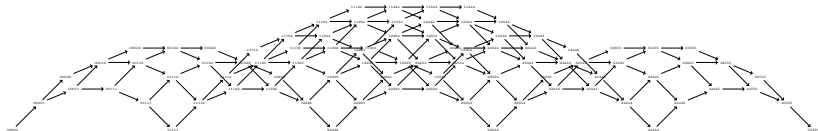


$3\text{-}A(1, 2, 3, 3, 4, 3)$ 

$$\tau_2(v) = v - (1, 1, 1)$$

$4\text{-}A(1, 2, 3, 3, 4, 3)$ 

$$\tau_3(v) = v - (1, 1, 1, 1)$$

$5\text{-}A(1, 2, 3, 3, 4, 3)$ 

$$\tau_4(v) = v - (1, 1, 1, 1, 1)$$